11-22-04

Express Mail No.: EV 456 932 851 US

HE UNITED STATES PATENT AND TRADEMARK OFFICE

Application

THOMAS et al.

Confirmation No.

8113

of:

Serial No.

09/497,957

Art Unit:

1634

Filed:

February 4, 2000

Examiner:

Goldberg, Jeanine Anne

For:

PLASMIDS COMPRISING NUCLEIC ACIDS FROM THE HEREDITARY

Attorney Docket No.

8907-087-999

HEMOCHROMATOSIS GENE

TRANSMITTAL

Commissioner for Patents Mail Stop Post Issue P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents in connection with the above-identified application:

- 1) Revocation and Power of Attorney or Authorization of Agent;
- 2) Copy of Official Filing Receipt of the above-identified application;
- Copies of the following recorded assignments: 3)
 - a. From the inventors to Mercator Genetics, Inc.
 - b. From Mercator Genetics, Inc. to Progenitor, Inc.
 - c. From Progenitor, Inc. to Bio-Rad Laboratories, Inc.

4) Change of Correspondence Address

No fee is believed to be due. The Commissioner is however authorized to charge all required fees, fees under 37 C.F.R. § 1.17 and all required extension of time fees, or credit any overpayment, to Jones Day Deposit Account No. 50-3013 (043018-999087).

Respectfully submitted,

Date:

November 18, 2004

Roger C. Rich

For: Nikolaos C. George

(Reg. No. 39,201)

JONES DAY

222 East 41st Street

New York, New York 10017

(212) 326-3939

Express Mail No.: EV 456 932 851 US

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application

THOMAS et al.

Confirmation No.

8113

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Serial No.

09/497,957

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1634

Filed:

February 4, 2000

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Goldberg, Jeanine Anne

For:

PLASMIDS COMPRISING NUCLEIC

Attorney Docket No.

8907-087-999

ACIDS FROM THE HEREDITARY

HEMOCHROMATOSIS GENE

CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents Mail Stop Post Issue P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Please change the correspondence address for the above-referenced patent application to reflect the firm name, address, telephone number, and telefax number of Customer Number:

20583

Please note this is the address for receipt of all correspondence from the United States

Patent and Trademark Office.

Respectfully submitted,

Date:

November 18, 2004

Roger C. Rich

34,398 (Reg. No.)

For: Nikolaos C. George

(Reg. No. 39,201)

JONES DAY

222 East 41st Street

New York, New York 10017

(212) 326-3939

No. EV

POWER OF ATTORNEY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application

THOMAS et al.

Confirmation No.

8113

of:

Serial No.

09/497,957

Art Unit:

1634

Filed:

February 4, 2000

Examiner:

Goldberg, Jeanine Anne

For:

PLASMIDS COMPRISING NUCLEIC ACIDS

Attorney Docket No. 8907-087-999

FROM THE HEREDITARY HEMOCHROMATOSIS GENE

REVOCATION AND POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Bio-Rad Laboratories, Inc., Assignee, hereby revokes any and all previous powers and appoints:

Practitioners at Customer Number 20583

as its attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please direct all correspondence address for the above-identified application to:

☐ The above mentioned Customer Number.

Address:

Jones Day, 222 East 41st Street, New York, New York 10017

Telephone:

(212) 326-3939

I am the:

Applicant/Inventor

Assignee of record of the entire interest. See 37 CFR 3.71.

(Statement under 37 CFR 3.73(b) is applicable)

SIGNATURE of Applicant or Assignee of Record							
Date:	8-25.04	Signature:	Shellenge				
	,	Typed Name:	John J. Cassingham				
		Position/Title:	Patent Counsel and Assistant Secretary				
		Assignee:	Bio-Rad Laboratories, Inc.				

Statement Under 37 C.F.R. 3.73(b)

Bio-Rad Laboratories, Inc., states that it is: the assignee of the entire right, title, and interest; or an assignee of less than the entire right, title and interest. The extent (by, percentage) of its ownership interest is									
in the patent application/patent identified above by virtue of either:									
	An assignment from the inventor(s) of the patent application/patent identified above, a copy which is attached hereto.								
OR	A chain of title from the inventor(s), of the pa current assignee as shown below:	tent application/patent identified above, to the							
	From: To: The document was recorded in the United Sta Reel , Frame , or for which a cop	tes Patent and Trademark Office on at by thereof is attached.							
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	Additional documents in the chain of title are	listed on a supplemental sheet.							
		gnment document or a true copy of the original Division in accordance with 37 CFR Part 3, if							
The u	undersigned (whose title is supplied below) is auth	norized to act on behalf of the assignee.							
	ASSIGNEE:	Bio-Rad Laboratories, Inc.							
Date:	8-25-04 Signature:	Ashif Carry							
	Typed Name:	John J. Cassingham							
	Position/Title:	Patent Counsel and Assistant Secretary							
	res of all the inventors or assignees of record of the nit multiple forms if more than one signature is re								

☐ Total of 1 form is submitted.



FILING RECEIPT

OC000000005026198



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: ASSISTANT SECRETARY AND

COMMISSIONER OF PATENT AND TRADEMARKS

Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/497,957 / ✓	02/04/2000	^J √ 1644	690	8907-087-999	√ 13	1	1
20582						h10-	5/4/00

20583
PENNIE AND EDMONDS
1155 AVENUE OF THE AMERICAS
NEW YORK, NY 100362711

Date Mailed: 04/03/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Winston J. Thomas, San Mateo, CA; Dennis T. Drayna, Bethesda, MD; John N. Feder, Mountain View, CA; Andreas Gnirke, San Carlos, CA; David Ruddy, San Francisco, CA; Zenta Tsuchihashi, Menlo Park, CA; Roger K. Wolff, Mill Valley, CA;

Continuing Data as Claimed by Applicant

THIS APPLICATION IS A CON OF 08/834,497 04/04/1997 WHICH IS A CIP OF 08/630,912 04/04/1996 ABN AND A CIP OF 08/632,673 04/16/1996 PAT 5,712,098 AND A CIP OF 08/652,265 05/23/1996 PAT 6,025,130

Foreign Applications

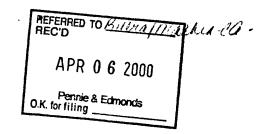
If Required, Foreign Filing License Granted 04/03/2000

Title

Heriditary Chromatosis Gene 47

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APR 0 7 2000 CAOFFICE



Data entry by : ROBINSON, YOLANDA

Team: OIPE

Date: 04/03/2000

LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CRF 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 36 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 600 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the
 Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along
 with a copy of the Express Mail label showing the "date in."

Any corrections that may need to be done to your Filing Receipt should be directed to:



MAY 08, 2000

PENNIE & EDMONDS LLP BRIAN M. POISSANT

NEW YORK, NY 10036

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ASSISTANT SECRETARY AND COMMISSIONER

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



CA

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/04/2000

REEL/FRAME: 010598/0014

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PROGENITOR, INC.

DOC DATE: 03/24/1999

ASSIGNEE:

BIO-RAD LABORATORIES, INC. 1000 ALFRED NOBEL DRIVE HERCULES, CALIFORNIA 94547

SERIAL NUMBER: 09497957 8767

PATENT NUMBER:

SERIAL NUMBER: 08436074 (4) 1-04 0

PATENT NUMBER: 5753438

SERIAL NUMBER: 08599252

PATENT NUMBER: 5705343

SERIAL NUMBER: 08632673 8409 35

PATENT NUMBER: 5712098

FILING DATE: 02/04/2000

ISSUE DATE:

FILING DATE: 05/08/1995 ISSUE DATE: 05/19/1998

FILING DATE: 02/09/1996 ISSUE DATE: 01/06/1998

FILING DATE: 04/16/1996 ISSUE DATE: 01/27/1998

PENNIE & EDMONDS

MAY 2 4 2000 CA OFFICE REFERRED TO KIYUTA / 1714 CK ()

MAY 2 2 2000

Pennie & Edmonds O.K. for filing

010598/0014 PAGE 2

SERIAL NUMBER: 08652265 8909-053 PATENT NUMBER: 6025130

SERIAL NUMBER: 08724394 8407-054

PATENT NUMBER: 5872237

SERIAL NUMBER: 08834497 8907-056

PATENT NUMBER:

SERIAL NUMBER: 08852495 7907-067

PATENT NUMBER:

290-05 OK 1876.010

SERIAL NUMBER: 08867010 PATENT NUMBER:

SERIAL NUMBER: 08920559 8907-062

PATENT NUMBER:

SERIAL NUMBER: 09094964 \$907-074

PATENT NUMBER:

SERIAL NUMBER: 09216077-8907-036

PATENT NUMBER:

FILING DATE: 05/23/1996 ISSUE DATE: 02/15/2000

FILING DATE: 10/01/1996 VISSUE DATE: 02/16/1999

FILING DATE: 04/04/1997 V

ISSUE DATE:

FILING DATE: 05/07/1997

ISSUE DATE:

FILING DATE: 06/02/1997

ISSUE DATE:

FILING DATE: 08/27/1997

ISSUE DATE:

FILING DATE: 06/12/1998 √

ISSUE DATE:

FILING DATE: 12/18/1998,/

ISSUE DATE:

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



AUTHORIZATION TO CHARGE ADDITIONAL FEES TO DEPOSIT ACCOUNT

MAY 08, 2000

TO:

OFFICE OF FINANCE

FROM:

ASSIGNMENT DIVISION

OFFICE OF PUBLIC RECORDS

SUBJECT:

DEPOSIT ACCOUNT CHARGE(S)

CHARGE THE DEPOSIT ACCOUNT LISTED BELOW ADDITIONAL FEE(S) AS INDICATED BELOW. AUTHORIZATION TO CHARGE ADDITIONAL FEES HAS BEEN PROVIDED PER THE ATTACHED COVER SHEET, OR BY DIRECT CONTACT WITH THE CUSTOMER.

DEPOSIT ACCOUNT NUMBER: 116115

PROPERTY NUMBER: 09497957

RECORDING FEES:

FEE CODE: 581

AMOUNT:

40

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

TRADEMARK SERVICE FEES:	FEE	CODE:
RECORDING FIRST MARK RECORDATION SECOND AND	481 482	
SUBSEQUENT MARK IN SAME DOCUMENT LABOR CHARGES FOR SERVICES PER HOURS	484	
OR FRACTION THEREOF	485	
UNSPECIFIED OTHER SERVICES	400	

PATENT SERVICE FEES:

RECORDING EACH PATENT ASSIGNMENT, 581

successors and assigns, to obtain and enforce proper patent protection for the invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by BIO-RAD, its successors and assigns.

IN WITNESS WHEREOF, each party has caused its authorized representative to execute this Assignment.

PROGENITOR, INC.

Name: Mark Bagilall

Title: Vice President and Chief Financial Officer Date:



Name of Person Signing

Reg. No.

03-14-2000



101287450

Ey ss Mail No. EL 236 253 072 US

Attorney Docket Numbers

; 8907-049-999; 8907-052-999; 8907-053-999;

);8907-056-999; 8907-057-999; 8907-059-999; 8907-062-999; 8907-074-999; 8907-076-999

Date

5

10:20:10		
TO THE HONORABLE COMMISSIONER (Box Assign Washington, DO	nent 20231	
Please record the attached original	documents or copy thereof.	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):	
Progenitor, Inc.	Name: Bio-Rad Laboratories, Inc.	
Additional name(s) of conveying party(ies) attached? Yes No	Address: 1000 Alfred Nobel Drive	
3. Nature of conveyance:	Hercules, CA 94547	<u> </u>
■ Assignment	Country (if other than USA):	
☐ Security Agreement ☐ Change of Name		
□ Other		
Execution Date: March 24, 1999		
4. Application number(s) or patent number(s):	1	
If this document is being filed together with a new application, the execution of	ate of the application is:	
A. Patent Application No.(s)	B. Patent No.(s)	
08/436,074 (now US 5,753,438); 08/599,252 (now US		
5,705,343); 08/632,673 (now US 5,712,098); 08/652,265, 08/724,394 (now US 5,872,237); 08/834,497; 08/852,495;		
08/867,010; 08/920,559; 09/094,964; 09/216,077		
Additional numbers attac	hed? □ Yes No	
Name and address of party to whom correspondence concerning document should be mailed:	6. Number of applications and patents involved:	
PENNIE & EDMONDS LLP 1155 Avenue of the Americas	7. Total fee (37 CFR 3.41):\$ 440.00 Please charge to the deposit account listed	in
New York, NY 10036	Section 8.	
2000 DHGUYEN 00000143 161150 09497957	8. Deposit account number: 16-1150	
58 40.00 CH DO NOT USE 7		
9. Statement and signature.		
9. Statement and signature. To the best of my knowledge and belief, the foregoing is a true copy of the original document. Brian M. Poissant 28,462	information is true and correct and any attached	cc

Total number of pages including cover sheet:

ASSIGNMENT

WHEREAS, Progenitor, Inc., a Delaware corporation having offices at 4040 Campbell Avenue, Menlo Park, California 94025 ("PROGENITOR"), owns, by assignment, all right, title, and interest in those patents and patent applications set forth on Exhibit A hereto and all inventions claimed therein (the "PROGENITOR PATENTS"); and Bio-Rad Laboratories, Inc., a Delaware corporation having offices at Corporate Offices, 1000 Alfred Nobel Drive, Hercules, California 94547 ("BIO-RAD"), desires to acquire PROGENITOR's entire right, title, and interest in and to the PROGENITOR PATENTS.

NOW THEREFORE, be it known that, in consideration of one dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, PROGENITOR hereby sells, assigns, transfers, and sets over to BIO-RAD, its lawful successors and assigns, PROGENITOR's entire right, title, and interest in and to the PROGENITOR PATENTS and all inventions disclosed therein, and all letters patent of the United States that may be granted thereon, and all reissues, reexaminations, and extensions thereof; and all rights to claim priority on the basis of all such patents and patent applications, and all applications for letters patent claiming priority from the PROGENITOR PATENTS that have been or may be filed in any foreign country and all such letters patent that may be granted thereon in any foreign country, and all extensions, renewals, and reissues thereof; and PROGENITOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all letters patent for this invention to BIO-RAD, its successors and assigns, in accordance with the terms of this Assignment;

AND, PROGENITOR HEREBY further covenants that PROGENITOR has the full right to convey the interest assigned by this Assignment, PROGENITOR will take all action and execute all documents necessary to perfect the interest assigned hereby, and PROGENITOR has not executed and will not execute any agreement in conflict with this Assignment;

AND, PROGENITOR HEREBY further covenants and agrees that PROGENITOR, through its officers and employees, will, without further consideration, communicate with BIO-RAD, its successors and assigns, any facts known to PROGENITOR and its officers and employees respecting the invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in said BIO-RAD, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid BIO-RAD, its



MARCH 31, 2000

NY, NY 10036

PENNIE & EDMONDS LLP BRIAN M. POISSANT

1155 AVENUE OF THE AMERICAS



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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/06/2000

REEL/FRAME: 010489/0178

NUMBER OF PAGES: 5

ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). BRIEF:

ASSIGNOR:

PROGENITOR, INC.

DOC DATE: 03/24/1999

ASSIGNEE:

BIO-RAD LABORATORIES, INC. 1000 ALFRED NOBEL DRIVE HERCULES, CALIFORNIA 94547

SERIAL NUMBER: 08436074 8 407 046

PATENT NUMBER: 5753438 J

SERIAL NUMBER: 08599252

PATENT NUMBER: 5705343~

SERIAL NUMBER: 08632673 6901 052

PATENT NUMBER: 5712098,

SERIAL NUMBER: 08652265 18907.050

PATENT NUMBER: 6025130 ✓

FILING DATE: 05/08/1995 ISSUE DATE: 05/19/1998

FILING DATE: 02/09/1996 ISSUE DATE: 01/06/1998

FILING DATE: 04/16/1996 ISSUE DATE: 01/27/1998

FILING DATE: 05/23/1996 ISSUE DATE: 02/15/2000

> RECEIVED PENNIE A FOMOMOS

APR 0 7 2000

CA OFFICE

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APR 0 6 2000

Pennie & Edmonds O.K. for filling .

· 010489/0178 PAGE 2

SERIAL NUMBER: 08724394-8907-054-47

PATENT NUMBER: 5872237

SERIAL NUMBER: 08834497

PATENT NUMBER:

SERIAL NUMBER: 08852495 / 9907-05794

PATENT NUMBER:

SERIAL NUMBER: 08867010 9907-05999

SERIAL NUMBER: 08920559 8907-068.999?
PATENT NUMBER:

SERIAL NUMBER: 09094964 V 3707- 074-999 PATENT NUMBER.

SERIAL NUMBER: 0921607# 6707-076-021?
PATENT NUMBER:

FILING DATE: 10/01/1996 ISSUE DATE: 02/16/1999

FILING DATE: 04/04/1997

ISSUE DATE:

FILING DATE: 05/07/1997

ISSUE DATE:

FILING DATE: 06/02/1997

ISSUE DATE:

FILING DATE: 08/27/1997

ISSUE DATE:

FILING DATE: 06/12/1998

ISSUE DATE:

FILING DATE: 12/18/1998

ISSUE DATE:

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

MAIL F JAM 1/\$6/00	Attorney Docket Numbers 907-046-999; 8907-049-999; 8907-052-999; 8907-053-999; 1907-054-999; 8907-056-999; 8907-057-999; 8907-076-999; 8907-062-999; 8907-074-999; 8907-076-999
TO THE HONORABLE COMMISSIONER O	OF PATENTS AND TRADEMARKS
Box Assigns Washington, DO	
المت لمامه (٧)	
Please record the attached original	
1. Name of conveying party(ies):	Name and address of receiving party(ies):
Progenitor, Inc.	Name: Bio-Rad Laboratories, Inc.
Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No	Address: 1000 Alfred Nobel Drive
3. Nature of conveyance:	Hercules, CA 94547
■ Assignment	Country (if other than USA):
☐ Security Agreement ☐ Change of Name	
Other	
Execution Date: March 24, 1999	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application, the execution of	late of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
08/436,074 (now US 5,753,438); √08/599,252 (now US	·
5,705,343); 08/632,673 (now US 5,712,098); 08/652,265,	
08/724,394 (now US 5,872,237); 08/834,497; 08/852,495	
08/867,010; 08/920,559; 09/094,964; 09/216,077	1
Additional numbers atta	ched? □ Yes ≅ No
Name and address of party to whom correspondence	6. Number of applications
concerning document should be mailed:	and patents involved: 11
PENNIE & EDMONDS LLP	7. Total fee (37 CFR 3.41):\$ 440.00
1155 Avenue of the Americas	Please charge to the deposit account listed in
New York, NY 10036	Section 8.
	8. Deposit account number:
/14/2000 DNGUYEN 00000103 161150 08436074	<u>16-1150</u>
F0:581 440.00 CH DO NOT USE	THIS SPACE
9. Statement and signature.	
To the best of my knowledge and belief, the foregoing	information is true and correct and any attached copy
is a true copy of the original document.	.)
Brian M. Poissant 28,462	1. Taismat Jan. 0, 2008
Name of Person Signing Reg. No. Signature	By 2 (Lace 42067 Date
Total	number of pages including cover sheet: 5

ASSIGNMENT

WHEREAS, Progenitor, Inc., a Delaware corporation having offices at 4040 Campbell Avenue, Menlo Park, California 94025 ("PROGENITOR"), owns, by assignment, all right, title, and interest in those patents and patent applications set forth on Exhibit A hereto and all inventions claimed therein (the "PROGENITOR PATENTS"); and Bio-Rad Laboratories, Inc., a Delaware corporation having offices at Corporate Offices, 1000 Alfred Nobel Drive, Hercules, California 94547 ("BIO-RAD"), desires to acquire PROGENITOR's entire right, title, and interest in and to the PROGENITOR PATENTS.

NOW THEREFORE, be it known that, in consideration of one dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, PROGENITOR hereby sells, assigns, transfers, and sets over to BIO-RAD, its lawful successors and assigns, PROGENITOR's entire right, title, and interest in and to the PROGENITOR PATENTS and all inventions disclosed therein, and all letters patent of the United States that may be granted thereon, and all reissues, reexaminations, and extensions thereof; and all rights to claim priority on the basis of all such patents and patent applications, and all applications for letters patent claiming priority from the PROGENITOR PATENTS that have been or may be filed in any foreign country and all such letters patent that may be granted thereon in any foreign country, and all extensions, renewals, and reissues thereof; and PROGENITOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all letters patent for this invention to BIO-RAD, its successors and assigns, in accordance with the terms of this Assignment;

AND, PROGENITOR HEREBY further covenants that PROGENITOR has the full right to convey the interest assigned by this Assignment, PROGENITOR will take all action and execute all documents necessary to perfect the interest assigned hereby, and PROGENITOR has not executed and will not execute any agreement in conflict with this Assignment;

AND, PROGENITOR HEREBY further covenants and agrees that PROGENITOR, through its officers and employees, will, without further consideration, communicate with BIO-RAD, its successors and assigns, any facts known to PROGENITOR and its officers and employees respecting the invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in said BIO-RAD, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid BIO-RAD, its

successors and assigns, to obtain and enforce proper patent protection for the invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by BIO-RAD, its successors and assigns.

IN WITNESS WHEREOF, each party has caused its authorized representative to execute this Assignment.

PROGENITOR, INC.

By:

Title: Vice President and Chief Financial Officer Date: ______

EXHIBIT A TO

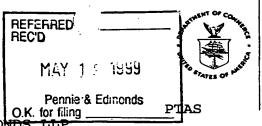
ASSIGNMENT BETWEEN PROGENITOR, INC. AND BIO-RAD LABORATORIES, INC.

U.S. PATENTS AND PATENT APPLICATIONS

							O. B. in	DouglASS GIVEN	7R06510178A, 112C 5/31/00		
	Title Method to Diagnose Hereditary Hemochromatosis	Method to Diagnose Hereditary Hemochromatosis	Hereditary Hemochromatosis Diagnostic Markers and Diagnostic Methods	Hereditary Hemochromatosis Gene	Megabase Transcript Map: Novel Sequences and Antibodies Thereto	Hereditary Hemochromatosis Gene	Polymorphisms in the Region of the Human Hemochromatosis Gene	Methods and Compositions for Diagnosis and Treatment of DougLASS (Iron Overload Diseases	Methods and Compositions for Diagnosis and Treatment of Iron Misregulation Diseases	Methods and Compositions for Diagnosis and Treatment of Iron Overload Diseases and Iron Deficiency Diseases	Peptides and Peptide Analogues Designed from HFE Protein and Their Uses in the Treatment of Iron Overload Disease
raieni	Filed 05/08/95	02/09/96	04/16/96	05/23/96	10/01/96	04/04/97	05/07/97	06/13/97	08/27/97	06/12/98	12/18/98
U.S. PATEN IS AND FAIENT ALL ELECTRICATION OF THE PROPERTY OF	Serial No. 08/436,074	08/599,252	08/632,673	08/652,265	,08/724,394	08/834,497	f 08/852,495	68 876,010 8,867,010	08/920,559	09/094,964	09/216,077
I. U.S. PA	<u>Inventor</u> Drayna et al.	Drayna et al.	Tsuchihashi et al.	mas et al.	(Feder et al.	Thomas et al.	Ruddy and Wolff	Feder et al.	Feder et al.	Føder et al.	Feder et al.

FOREIGN PATENTS AND PATENT APPLICATIONS

												•	
Filed	96/80/50	96/80/50	96/80/50	96/80/50	05/08/95	03/19/97	10/01/97	26/30/60	04/04/97	04/04/97	04/04/97	04/04/97	06/12/98
Application No.	2,220,293	58559/96	6/3639	96920167.2	PCT/US96/06583	97/6370	97/8804	PCT/US97/17658		26701/97	97918642.6	PCT/US97/06254	PCT/US98/12436
Country	Canada	Australia	South Africa	EPO	F.)	South Africa	South Africa	PCT	Canada	Australia	EPO	۲	PCT



UNITED STARS DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

100961523A*

8907-056

MAY 04, 1999

PENNIE & EDMONDS LLP BRIAN M. POISSANT

1155 AVENUE OF THE AMERICAS

YORK, NY 10036

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

CLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/29/1999

REEL/FRAME: 9739/0182

NUMBER OF PAGES: 2

ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS). BRIEF:

ASSIGNOR:

MERCATOR GENETICS, INC.

DOC DATE: 01/27/1999

ASSIGNEE:

PROGENITOR, INC. 4040 CAMPBELL AVENUE MENLO PARK, CALIFORNIA 94025

SERIAL NUMBER: 08834497

PATENT NUMBER:

FILING DATE: 04/04/1997

ISSUE DATE:

MARY BENTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Expre. Mail No. <u>EL 236 251 669 US</u>

JAN 2 9 1999 S

PATENTS ONLY

Attorney Docket Number 8907-056-999

TO THE HONORAB

02-08-1999



DEMARKS

	9961523 ginal documents of copy dicreof.
Name of conveying party(ies):	2. Name and address of receiving party(ies):
Mercator Genetics, Inc.	Name: Progenitor, Inc.
Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No	Address: 4040 Campbell Avenue
3. Nature of conveyance:	Menlo Park, CA 94025
■ Assignment	Country (if other than USA):
□ Security Agreement □ Change of Name	
□ Other	
Execution Date: January 27, 1999	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application, the execut	ion date of the application is:
A. Patent Application No.(s) 08/834,497	B. Patent No.(s)
Additional numbers	attached? □ Yes ≅ No
Name and address of party to whom correspondence concerning document should be mailed:	Number of applications and patents involved: 1
PENNIE & EDMONDS LLP 1155 Avenue of the Americas New York, NY 10036	7. Total fee (37 CFR 3.41):\$ 40.00 Please charge to the deposit account listed in Section 8.
05/1999 JSHABAZZ 00000015 161150 08834497	8. Deposit account number:
FC:581 40.00 CH	<u>16-1150</u>
DO NOT US	E THIS SPACE
9. Statement and signature.	
	ng information is true and correct and any attached copy by Vital Was Reg. No. 35,750 January 29, 1999
Brian M. Poissant, Reg. No. 28,462 Name of Person Signing Reg. No. Signature	1.15) ssaw / reg. no. 27 January 27, 1979 Date

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignment Washington, D.C. 20231

Total number of pages including cover sheet:

ASSIGNMENT

WHEREAS, Mercator Genetics, Inc., ASSIGNOR, a corporation organized and existing under the laws of California, U.S.A., and having a place of business at 4040 Campbell Avenue, Menlo Park, CA 94025, is the owner of the entire right, title and interest in, and to, application for United States Letters Patent, in the names of Winston J. Thomas, Dennis T. Drayna, John N. Feder, Andreas Gnirke, David Ruddy, Zenta Tsuchihashi and Roger K. Wolff for *Hereditary Hemochromatosis Gene* and of the invention therein described; and

- which is identified by Pennie & Edmonds LLP docket no. 8907-0056-999
- which was filed on April 4, 1997 as Application No. 08/834,497

and WHEREAS, Progenitor, Inc., ASSIGNEE, a corporation organized and existing under the laws of Delaware, U.S.A., and having a place of business at 4040 Campbell Avenue, Menlo Park, CA 94025, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

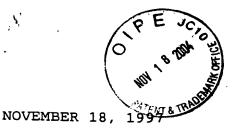
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 27 day of
Mercator Genetics, Inc.
By Douglass B. Given President
State of California)
State of California) County of Sonta Clara
On this Italy of Manager 1999, before me, a Notary Public in and for the State and Count
aforesaid, personally appeared Countain 13. Strien
to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and h
acknowledged the same to be his free act and deed.
SUSANI J. KEYSER TO GOMMIL # 1060531 E Ausan Feyger
Notary Public Sen Marteo County





7957-00052005 .TES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER

OF PATENTS AND TRADEMARKS Washington, D.C. 20231



TOWNSEND AND TOWNSEND AND CREW LLP RENEE A. FITTS TWO EMBARCADERO CENTER SAN FRANCISCO, CA 94111-3834

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/06/1997

REEL/FRAME: 8741/0741

NUMBER OF PAGES: 6

ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). BRIEF:

ASSIGNOR:

THOMAS, WINSTON J.

DOC DATE: 04/16/1997

ASSIGNOR:

DRAYNA, DENNIS T.

DOC DATE: 04/24/1997

ASSIGNOR:

FEDER, JOHN N.

DOC DATE: 04/16/1997

ASSIGNOR:

GNIRKE, ANDREAS

DOC DATE: 04/16/1997

ASSIGNOR:

RUDDY, DAVID

DOC DATE: 04/16/1997

ASSIGNOR:

TSUCHIHASHI, ZENTA

04/16/1997

DOC DATE: 04/16/1997

ASSIGNOR: WOLFF, ROGER K. 8741/0741 PAGE 2

ASSIGNEE:

MERCATOR GENETICS, INC. 4040 CAMPBELL AVENUE MENLO PARK, CALIFORNIA 94025

SERIAL NUMBER: 08834497

PATENT NUMBER:

FILING DATE: 04/04/1997

ISSUE DATE:

PEARLENE FOSTER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

MED 10-6-97 10.	-17-1997
FORM PTO-1595 (Rev. 6-93)	U.S. DEPARTMENT OF COMMERCE
To the Honorable Asst. Commissioner for Patents. Please rec	Patent and Trademark Office
1. Name of conveying party(ies): PE	2 Name and address of securities assets
Winston J. Thomas	2. Name and address of receiving party(ins): RECEIPT ACCTING. DIV. Name: Mercator Genetics, Inc.
May September 1	Internal Address:
Additional name(s) of conveying party(ies) attached? XI	
	Street Address: 4040 Campbell Avenue
3. Nature of conveyance:	City: Menlo Park State: CA ZIP: 94025
Security Agreement Change of Name	5.57 Mono Fair State. GA 21F. 54025
Other:	
Execution Date: April 16, 1997 & April 24, 1997	
	Additional name(s) & address(es) attached? Yes X No
 Application number(s) or patent number(s). If this document is being filed together with a new applicat 	tion, the execution date of the application is:
A. Patent Application No.(s) 08/834,497	B. Patent No.(s)
Additional numbers atta	ached? Yes X No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Renee A. Fitts TOWNSEND and TOWNSEND and CREW LLP	7. Total fee (37 CFR 3.41): \$ 40.00
l wo Embarcadero Center, 8th Floor San Francisco, California 94111-3834 (650) 326-2400	Enclosed X Charge Fees to Deposit Account
	x Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account
\	8. Deposit account number: 20-1430
/15/1997 JSHOE077 00000016 DOM: 201430 08834497	
	SE THIS SPACE
9. Statement and signature.	
of the original document. Renee A. Fitts	prmation is true and correct and any attached copy is a true copy
Name of Person Signing Signature	10/03/97 Date
Atty. Reg. No. 35,136 Total number of p	ages including cover sheet, attachments, and document: 6
10. Change Correspondence Address to that of Part 5?	Yes No
OMB No. 0651-0011 (exp. 4/94)	
Asst. Commis	ach this portion . Islanes for Patents asignments

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Form P10-1595
Recordation Form Cover Sheet
Patents Only
Page 2

 Additional name(s) of conveying party(ies): (Continued from Page 1)

Dennis T. Drayna John N. Feder Andreas Gnirke David Ruddy Zenta Tsuchihashi Roger K. Wolff

- 2. Additional name(s) and address(es) of receiving party(ies): (Continued from Page 1)
- Additional application number(s) or patent number(s): (Continued from Page 1)
 - A. Patent Application No.(s)

B. Patent No.(s)

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Winston J. Thomas of 40 White Plains Ct., San Mateo, CA 94402, Dennis T. Drayna of 120 Center Drive #409, Bethesda, MD 20814, John N. Feder of 411 B West Dana Street, Mountain View, CA 94041, Andreas Gnirke of 1220 Highland Court, San Carlos, CA 94070, David Ruddy of 2336 B Gough Street, San Francisco, CA 94109, Zenta Tsuchihashi of 9 Light Way, Menlo Park, CA 94025, and Roger K. Wolff of 41 Eugene Street, Mill Valley, CA 94941, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

little of the invention:	HEREDITARY	HEMOCHROMATOSIS G	ENE
Filing date: <u>April 4, 199</u>	7	Application No.: <u>Unknown</u>	; and

WHEREAS, Mercator Genetics, Inc. a California corporation, located at 4040 Campbell Avenue, Menlo Park, CA 94025, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements

in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMON	Y WHEREOF, Assignors have signed their plames on the
dates indicated.	
Date: 4/16/97	Winston J. Thomas
Date:	
Date: $\frac{4/16/97}{16-97}$	John N. Feder Andreas Gnirke
Date: 4-16-97	David Ruddy
Date: 1/16/97	Zonia Tenchirlanten Zenta Tsuchihashi
Date: 4/18/97	Roger K. Wolff

 $H;\home\raf\work\17957\520\520.asn$

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Winston J. Thomas of 40 White Plains Ct., San Mateo, CA 94402, Dennis T. Drayna of 120 Center Drive #409, Bethesda, MD 20814, John N. Feder of 411 B West Dana Street, Mountain View, CA 94041, Andreas Gnirke of 1220 Highland Court, San Carlos, CA 94070, David Ruddy of 2336 B Gough Street, San Francisco, CA 94109, Zenta Tsuchihashi of 9 Light Way, Menlo Park, CA 94025, and Roger K. Wolff of 41 Eugene Street, Mill Valley, CA 94941, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention:	HEREDITARY	Y HEMOCHROMATOSIS GENE	
Filing date: April 4.	1997	Application No.: <u>Unknown</u>	; and

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in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date:	· · ·
	Winston J. Thomas
Date: 4/24/97	Dennis T. Drayna
Date:	
	John N. Feder
Date:	
	Andreas Gnirke
Date:	
	David Ruddy
Date:	
	Zenta Tsuchihashi
Date:	
	Roger K. Wolff

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